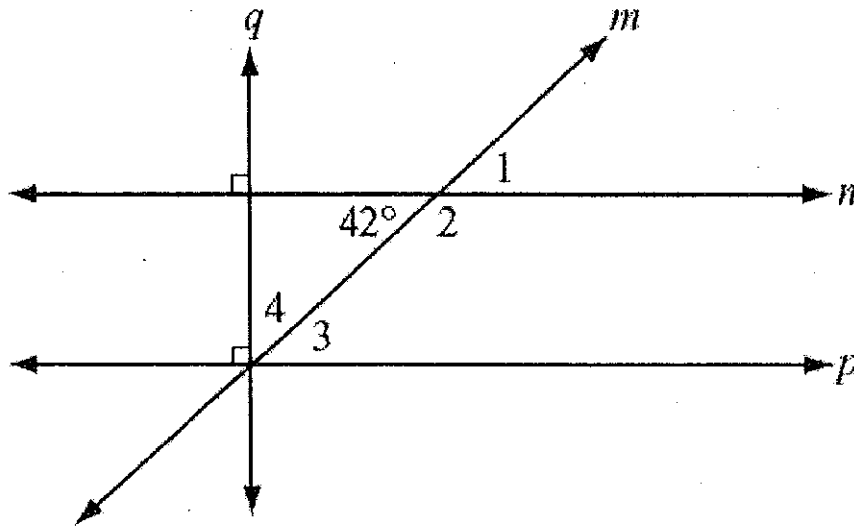


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

## Weekend Math Homework (Geometry Review)

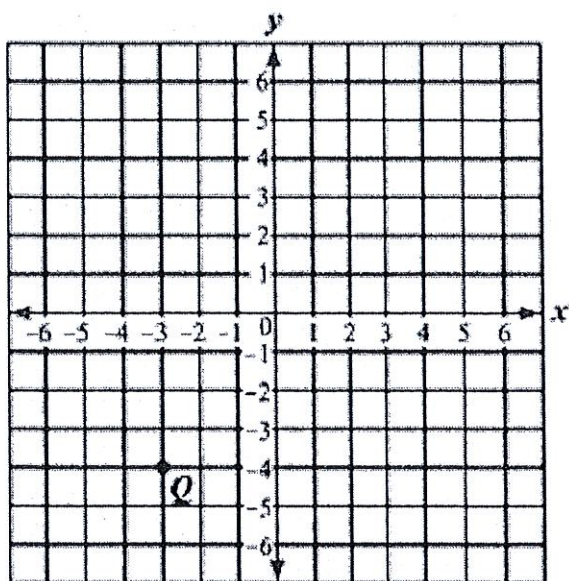
Parallel lines  $n$  and  $p$  are intersected by transversal lines  $q$  and  $m$ , as shown in the figure below.



Lines  $q$ ,  $m$ , and  $p$  intersect at a common point.

1. What is the degree measure of  $\angle 1$ ? Show or explain how you got your answer.
2. What is the degree measure of  $\angle 2$ ? Show or explain how you got your answer.
3. What is the degree measure of  $\angle 3$ ? Show or explain how you got your answer.
4. What is the degree measure of  $\angle 4$ ? Show or explain how you got your answer.

Use the grid below to answer all questions.



1. What are the coordinates of point Q?
2. On your grid, plot and label points  $S(-5, 0)$  and  $R(-3, 0)$ .
3. On your grid, plot and label a point  $T$  so that quadrilateral  $QRST$  is a rectangle. What are the coordinates of point  $T$ ?
4. On your grid, draw a second rectangle that meets the following requirements:
  - It is congruent to rectangle  $QRST$ .
  - The coordinates of each vertex are positive numbers.
  - The vertices are labeled  $U$ ,  $V$ ,  $W$ , and  $X$ .
5. What are the coordinates of each vertex of rectangle  $UVWX$ ?